Agenda
SW Alaska Salmon Science Workshop
December 4 & 5 – Anchorage Hilton

Wednesday - December 4 – Copper and Salmon – Are State and Federal Water Quality Standards Sufficiently Protective of Salmon in Southwest Alaska? A presentation of papers followed by a panel and audience discussion about whether current water quality standards for copper and other metals are likely to be protective of salmon, and if not how best to determine an appropriate standard that will protect salmon.

8:30 – Registration

9:00 - Welcome – Erika Ammann NOAA (Partnership Chairperson) and Tim Troll, BBHLT (Partnership Coordinator)

9:10 - Introduction - Angela Matz, USFW, General Overview of the Issue of Copper and Salmon and Introduction of Presenters

9:20 - Nancy Sonafrank and Brock Tabor – Alaska Department of Environmental Conservation
- Overview of Alaska Triennial Review and the process and requirements for revising water quality standards
- State review of the aquatic life standard for copper

10:15 - Break

10:30 – Dave Baldwin, NOAA
- Neurobehaviorial toxicity of copper to juvenile salmon

11:00 – Jennifer McIntyre, NOAA and Washington State University
- Influence of water chemistry on copper bioavailability and corresponding toxicity

11:30 - Angela Matz, USF&WS
- Contaminants in Yukon and Kuskokwim River salmon

12:00 – Lunch – Speaker – David Montgomery – *"The King of Fish and the Burden of Proof"*

1:30 - Jeff Morris, Stratus Consulting, presenting for Steve Brinkman, an aquatic research biologist recently retired from Colorado Parks and Wildlife
- Interaction of temperature and toxicity of zinc and copper to cutthroat and brook trout

2:00 – Joseph S Meyer, ARCADIS
- Do water quality criteria for copper protect against olfactory impairment in salmonids?

2:30 - Jeff Morris, Stratus Consulting
- Copper toxicity to rainbow trout and fathead minnows in low-hardness waters: Comparisons of BLM predictions of toxicity to bioassay results using laboratory water and site-collected water from Upper Talarik Creek in Bristol Bay

3:00 – Break

3:30 – 5:00 Angela Matz (Moderator) / Panel and Audience Questions and Discussion of Additional Research (How do we come up with a standard, particularly for copper, to adequately protect salmon in Southwestern Alaska.)(All presenters and Mike Daigneult ADF&G)

Thursday- December 5

Presentation of Projects Funded by Southwest Alaska Salmon Habitat Partnership

8:30 – Registration

9:00 - Welcome to Second Day of Workshops

9:10 - Fish Distribution Modeling in Bristol Bay - Mike Wiedmer (U of Washington) (20 minutes)

9:30 - Salmon Habitat Mapping in the Nushagak and Kvichak Watersheds – Christine Woll (TNC) (20 minutes)

9:50 – From reach to region: activities to advance our understanding of climate change impacts on western Alaska's freshwater systems – Joel Reynolds (USF&WS) (15 minutes)

10:10 – Break

10:30 – Bristol Bay River and Flyfishing Academy –Nelli Williams (TU) and Tim Troll (BBHLT) (15 minutes)

10:45 - Chinook Salmon Escapement, Distribution and Run Timing, in the Togiak River Watershed – Togiak NWR – Theresa Tanner, (USF&WS) (20 minutes)

11:05 - Spawning Habitat Selection in the Togiak River Watershed, Togiak NWR - Stephanie Meggers (USF&WS) (20 minutes)

11:25 – Proposed Steam Temperature Monitoring Network for Bristol Bay – Sue Mauger (Cook Inlet Keeper) and Sue Flensburg (Bristol Bay Native Assn.) (20 Minutes)

11:45 - Proposed Long Term Monitoring of Salmon Headwaters: Lime Hills Ecoregion, Bristol Bay – Dan Rinella, Dan Bogan and REbecca Shaftel (UAA) & Carol Ann Woody (CSP2) (30 minutes))

12:15 – 1:30 Lunch – Speaker – Alan Boraas - *Gathering and Using Traditional Ecological Knowledge to Inform the EPA Bristol Bay Watershed Assessment.*

Presentation of Other Research Projects in Southwest Alaska

1:40 – Estimating juvenile salmon summer-rearing habitat and abundance using multi-spectral aerial photography and fish capture data – Mark Lisac (USF&WS Togiak NWR) (20 minutes)

2:00 – From Fresh to Salt: Salmon Run Through It - How Important is the Nushagak Estuary?
- Todd Radenbaugh (UAF Bristol Bay Campus) (20 minutes)

2:20 – Evaluating the Utility of Strontium (Sr) Isotopes ($^{87}Sr/^{86}Sr$) to Identify Natal Origins and Track Movement Patterns of Chinook Salmon in the Nushagak River - Sean Brennan – UAF

2:40 – Variation in Salmon Abundance in Southwestern Alaska over the Past 500 Years – Pat Walsh (USF&WS Togiak NWR) (20 minutes)

3:00 – Break

3:30 – DNR and Instream Flow – Proposed Changes in HB 77 – Ed Fogels (ADNR Deputy Commissioner invited)(20 minutes)

4:00 - 5:00 - Review of SW Alaska Salmon Partnership Strategic Plan and Assessment of Research and Project Needs for SW Alaska.